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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-70 Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

IT IS ORDERED AND RESOLVED: That the following diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Tractor, Pump, and Compressor

Engine Power Ratings Range: 175 - 750 horsepower, inclusive

Fuel Type: Diesel

Engine Family	Displa	cement	Exhaust Emission Control
	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features
YJDXL10.5022 (550HB)	10.5	641	Charge Air Cooler Turbocharger Electronic Control Module

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Ext	<u>issions (</u>	Smoke Opacity (%)							
Standard	<u>THC</u> 1.0	CO 8.5	<u>NOx</u> 6.9	<u>PM</u> 0.4	Accel 20	<u>Lug</u> 15	Peak 50		
Certification	0.2	0.9	5.3	0.1	17	4	35		

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures—Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels—1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this

_ day of January 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Sur nary Form

Deere Power Systems Group of Deere & Company Manufacturer:

Engine category:

Engine category: Nonroad CI
EPA Engine Family: YJDXL10.5022

Mfr Family Name: 550HB

New Submission Process Code:

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9.Emission Control Device Per SAE J1930	EM, EC, TC, CA	EM, EC, TC,	EM, EC, TC, CA	EM, EC, TC, CA	EM, EC, TC, C46		the manufacture (1878) III day manufacture (1878) Into 1878				-	:				
8.Fuel Rate: (lbs/hr)@peak torque	117@1400	97@1400	103@1400	96@1400	97@1575											
7.Fuel Rate: mm/stroke@peak torque	252@1400	206@1400	218@1400	203@1400	183@1575	A Commission of the Commission					and the second s		THE COLUMN TWO COLUMN TO THE COLUMN TWO COLUMN TO THE COLUMN TWO C			
6.Torque @ RPM (SEA Gross)	1313@1400	1091@1400	1181@1400	1095@1400	975@1575											
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	134@2100	109@2100	120@2100	112@2100	103@2100											
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	193@2100	154@2100	169@2100	158@2100	145@2100											
3.BHP@RPM (SAE Gross)	389@2100	316@2100	350@2100	326@2100	298@2100							:				
2.Engine Model	6105H	6105H	6105H	6105H	6105H											
1.Engine Code	6105HF001A	6105HRW01	6105HF001C	6105HF001E	6105HF001F	:										